

NEWSPACE MARKET · COMPANY PROFILE



Sodern

France · founded 1961 · sodern.com

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PRODUCTS

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WITH DATASHEETS

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as of 20 August 2026

Sodern

Sodern is a French high-technology company founded in 1961, headquartered in Limeil-Brévannes near Paris, and operating as a subsidiary of ArianeGroup. Since its creation for a national strategic mission to develop neutron solutions for French sovereignty, Sodern grew to become the world leader in star trackers and space optronic equipment, with devices aboard satellites operated by ESA, NASA, CNES, JAXA, Airbus, Thales Alenia Space, and dozens of New Space constellation operators — including all OneWeb satellites (1,800+ Auriga star trackers). Sodern's star tracker product families span the full market: Hydra (high-performance modular, in Baseline, Access, and Custom variants), used on NASA Europa Clipper, NASA Lucy, NASA GOES, NASA InSight, ESA JUICE, and many geostationary telecom platforms; Auriga — a compact off-the-shelf tracker optimised for small satellites and New Space constellations; and Horus — a single-housing autonomous tracker suited to telecom satellites. For space cameras, Sodern produces the Auricam family and navigation cameras (NavCam on ESA's JUICE mission to Jupiter's moons). The company also designs multispectral optical filters for Earth observation payloads. In parallel, Sodern is a pioneer in neutron interrogation technology: its Sodilog neutron tubes enable oil and gas petrophysical logging at 150°C downhole; its FastGrade pulsed neutron probe delivers real-time mining ore grade estimation; its CNA analyser provides online cement raw mix composition control; and its sealed neutron generators serve nuclear research and waste control. In defence and security, the Astradia daytime star tracker provides GNSS-independent celestial navigation for airborne platforms without emitting any signals. Sodern's flight heritage spans over 60 years: it dev

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Product catalogue



SODERN
Auricam™

Auricam™ is a compact, off-the-shelf space camera designed for a wide range of missions including space surveillance, in-orbit services, monitoring, and navigation, offering optima

FOV	35 deg diagonal (25 deg square)
Resolution	4 MPx
Sensor	CMOS (B&W or color)
Dimensions	80 x 80 x 140 mm
Mass	420 g
Design Lifetime	15 years
Applications	SSA, SDA, in-orbit servicing, navigation, monitoring

price on request [datasheet](#)



SODERN
AURIGA CP Star Tracker

Affordable smallsat star tracker: software on OBC, SpaceWire interface, 11 arcsec XY precision, up to 10 Hz update rate, LEO-GEO-MEO, 200-unit permanent stock for <2-week delive

Architecture	Optical head; software on satellite OBC
Precision XY	11 arcsec
Temporal Noise (XY/Z)	11 / 70 arcsec
Update Rate	Up to 10 Hz
Acquisition Robustness	<=1 deg/s
Tracking Robustness	<=3 deg/s
Gyro Option	4 deg/s / 10 deg/s (with gyro augmentation)

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Auriga Star Tracker

Compact off-the-shelf star tracker for small satellites from 6U upward and New Space constellations. Selected for all 1,800+ OneWeb constellation satellites.

Platform compatibility	Small satellites from 6U and above
Availability	Off-the-shelf catalogue product
Flight heritage	OneWeb constellation (1,800+ units), NASA Blue Ghost 1 lunar lander, DLR COMPASSO

price on request



SODERN

HORUS Star Tracker

High-performance single-box star tracker: <1.6kg, 3 arcsec XY precision, CMOS with TEC, LEO-GEO-deep space, qualified 2025, withstands severe mechanical and radiation environmen

Mass	<1.6 kg
Architecture	Single-box (OH + EU integrated)
Precision XY	3 arcsec
Temporal Noise (XY/Z)	3 / 22 arcsec
Detector	CMOS with thermoelectric cooler (TEC)
Acquisition Robustness	<=6 deg/s
Tracking Robustness	<=8 deg/s

flight proven · TRL 9 price on request

[datasheet](#)



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Hydra

Hydra is a high-performance, modular multi-head star tracker family from Sodern, flight-proven since 2012, offering configurable optical heads and electronic units for satellite at

Tracking precision	a few arcseconds
Detector type	CMOS
Sun exclusion angle	26°
Thermoelectric cooler	Available with or without
Flight heritage	More than 245 units launched, flight-proven since 2012, over ten million hours in operatio
Hydra Access - Manufacturing	Batch manufacturing & off-the-shelf
Hydra Access - Delivery time	8-week delivery time

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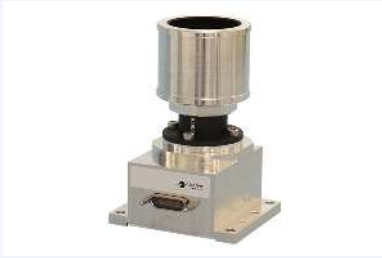
SODERN

HYDRA Star Tracker

Best-in-class modular star tracker for institutional and commercial satellites: 2.8 arcsec XY precision, 245+ units launched, LEO-GEO-deep space, 1-4 optical heads, 18-year GEO lif

Precision XY	2.8 arcsec
Temporal Noise (XY/Z)	2.3 / 18 arcsec
Acquisition Robustness	<=6 deg/s
Tracking Robustness	<=8 deg/s
Detector	CMOS
Optical Heads	1-4
Electronic Units	1-2 (LEO, GEO, or TC dual-channel)

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Sodern Auriga CP

The Sodern Auriga CP is a compact, radiation-resistant star tracker optimized for small satellite missions and constellations, offering high performance and reliability with a cent

Operating temperature range	-20/+40 °C
Storage temperature	-30/+70 °C
Mechanical environment (in/out of plane)	14/22 gRMS / 2000gSRS @2000 Hz
OH size (including baffle)	66 x 56 x 94 mm (height)
EU size	No Electronic Unit, centralized software
OH mass (including baffle)	205 g
EU mass	No Electronic Unit, centralized software

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Sodern Auriga SA

The Sodern Auriga SA is a compact, radiation-resistant star tracker optimized for small satellite platforms and CubeSats, offering high performance and reliability for missions up

Operating temperature range (°C)	-20/+40
Storage temperature (°C)	-30/+70
Mechanical environment (in/out of plane)	14/22 gRMS gRMS / 2000gSRS @2000 Hz
OH size (mm, including baffle)	66 x 56 x 94 (height)
EU size (mm)	91 x 117 x 25 (height)
OH mass (g, including baffle)	205
EU mass (g)	315

[price on request](#) [datasheet](#)

Contact Sodern

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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